

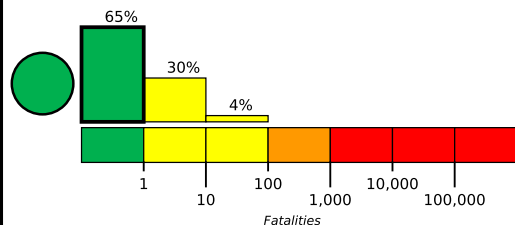
**M 6.7, 81 km WSW of Vallenar, Chile**

Origin Time: 2023-10-31 12:33:44 UTC (Tue 09:33:44 local)

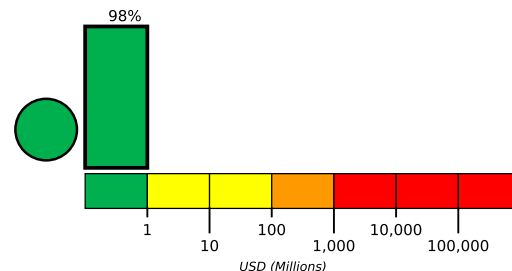
Location: 28.7457° S 71.5726° W Depth: 41.0 km

FOR TSUNAMI INFORMATION, SEE: [tsunami.gov](https://tsunami.gov)

Created: 22 minutes, 21 seconds after earthquake

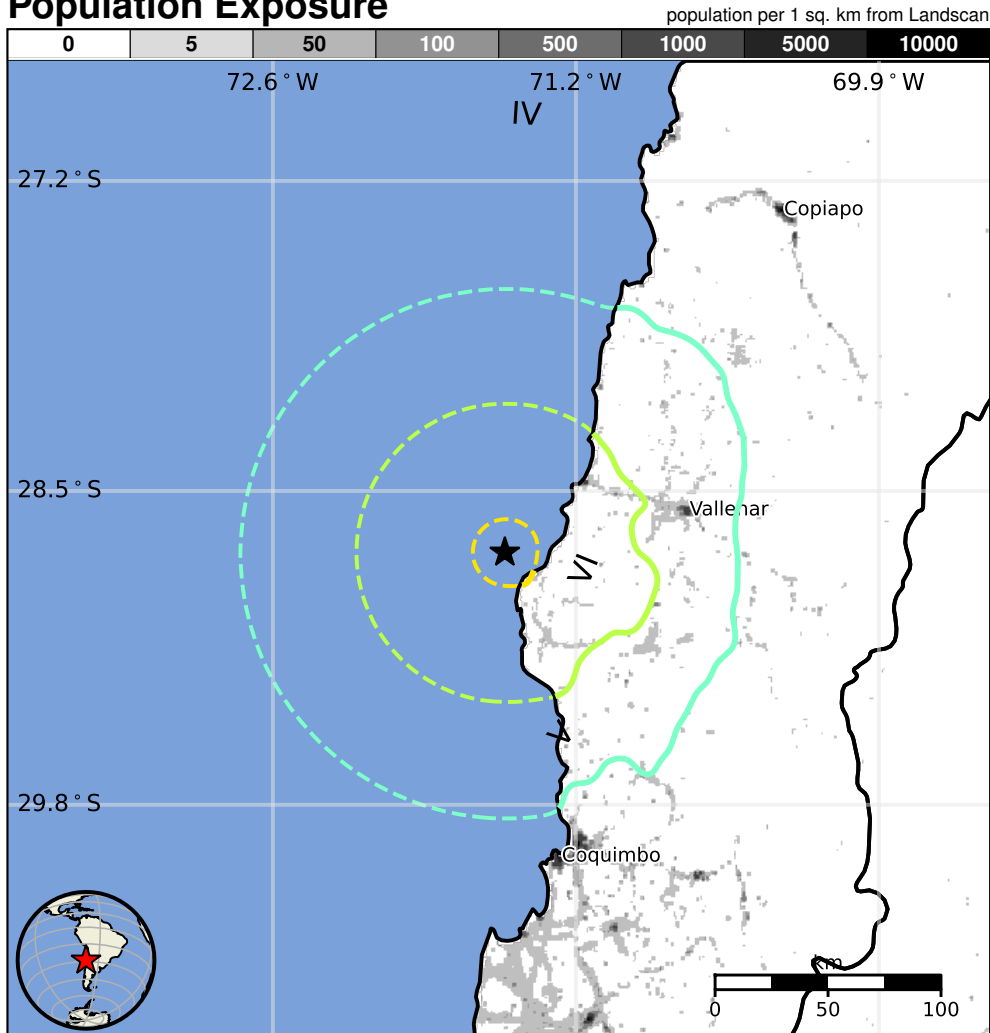
**Estimated Fatalities**

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

**Estimated Economic Losses****Estimated Population Exposed to Earthquake Shaking**

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	—*	841k	62k	18k	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

**Population Exposure****Structures**

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are adobe block and rubble/field stone masonry construction.

**Historical Earthquakes**

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1983-10-04	266	7.6	VII(30k)	5
1975-03-13	130	6.9	VIII(266k)	2
1997-10-15	241	7.1	VIII(3k)	7

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

**Selected City Exposure**

from GeoNames.org

MMI	City	Population
V	Vallenar	45k
IV	La Serena	155k
IV	Coquimbo	161k
IV	Vicuna	13k
IV	Vallenar	<1k
IV	Copiapo	129k
IV	Ovalle	77k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000i7si#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000i7si